

Service Manual

DVI-D Terminal Board for PF Series

TY-FB9FDD



Specifications

Terminals	Video Input	DVI-D 24 Pin × 1 compliance with DVI Revision 1.0
	Audio Input	Stereo mini jack (M3) × 1 0.5Vrms
Content Protection	Compatible with HDCP 1.1	

⚠ WARNING

This service information is designed for experienced service personnel only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential danger in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced service personnel. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Safety Precautions

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and $5.2M\Omega$.

When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

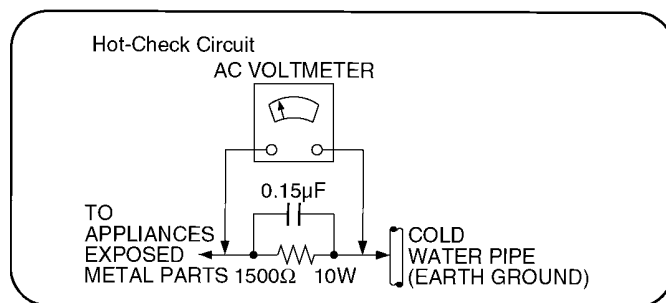


Figure 1

1.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5k\Omega$, 10 watts resistor, in parallel with a $0.15\mu F$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

2 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by $\triangle$ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3 About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

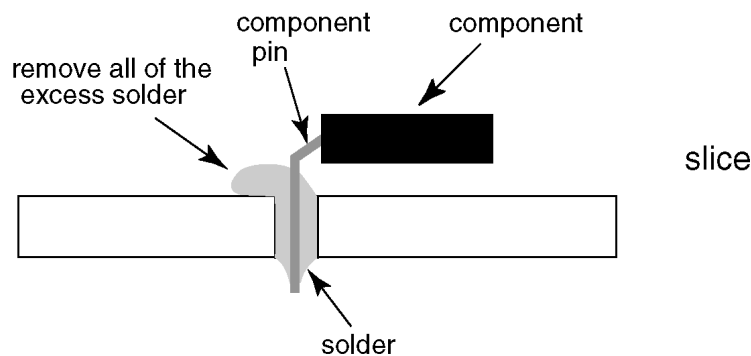
PCBs manufactured using lead free solder will have the PbF within a leaf Symbol **PbF** stamped on the back of PCB.

Caution

- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40°C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).

If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.

- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.

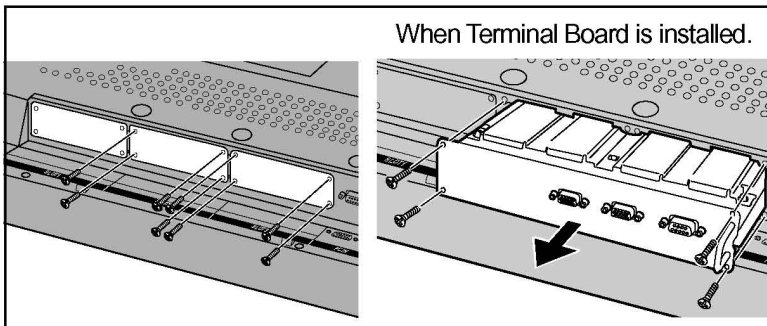
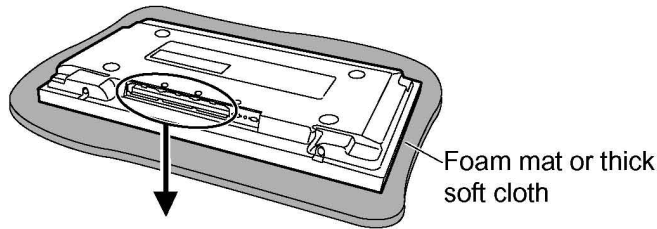
0.3mm X 100g	0.6mm X 100g	1.0mm X 100g

4 Replacement

The following explanation uses the 42/50-inch plasma display as an example. The terminal board shown is a typical example of one that can be replaced.

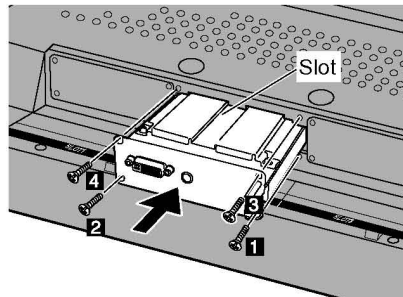
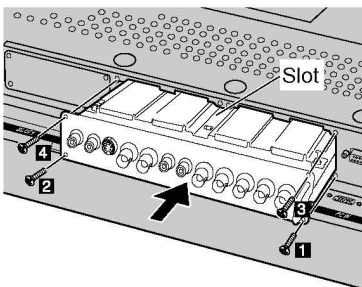
- Before proceeding with the replacement steps, be sure to turn off the entire system including the display, unplug all components from their outlets, and disconnect all the interconnect cables from the display.

The following example shows installation of a dual slot size board and a single slot size board.



1. Removing the dummy cover or mounted terminal board from display:

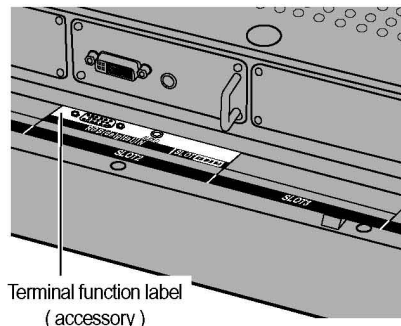
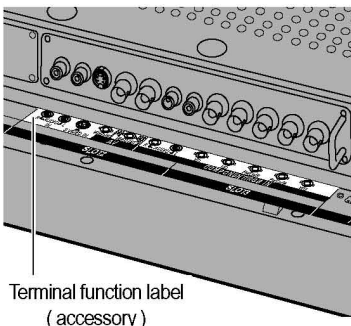
- Remove the slot cover securing screws (4 or 8 screws) on the back of the display. If a terminal board is already installed, grip the handle of the terminal board, and slowly pull out in the direction of the arrow.



2. Installing desired Terminal Board:

1. Insert the desired Terminal Board into the slot until it is firmly plugged into the card connector.
 - Make sure that the Board does not ride on the two lower claws.
2. Secure using the previously removed screws or those supplied with the unit. Tighten screws in the numbered order **1 - 4**.

Please note that there are slot fastening screws at 4 points on each slot (at 2 locations on both the left and right edges), so the number of fastening screws will vary depending on the number of slot insertions. Be sure to fasten all screws tightly.



3. Applying the terminal function label:

Peel off the backing sheet from the terminal function label (accessory) and affix it over the existing label.

- Make sure that the label is affixed with the correct position.

Have the customer keep the removed Terminal Board for future servicing needs.

5 Connection

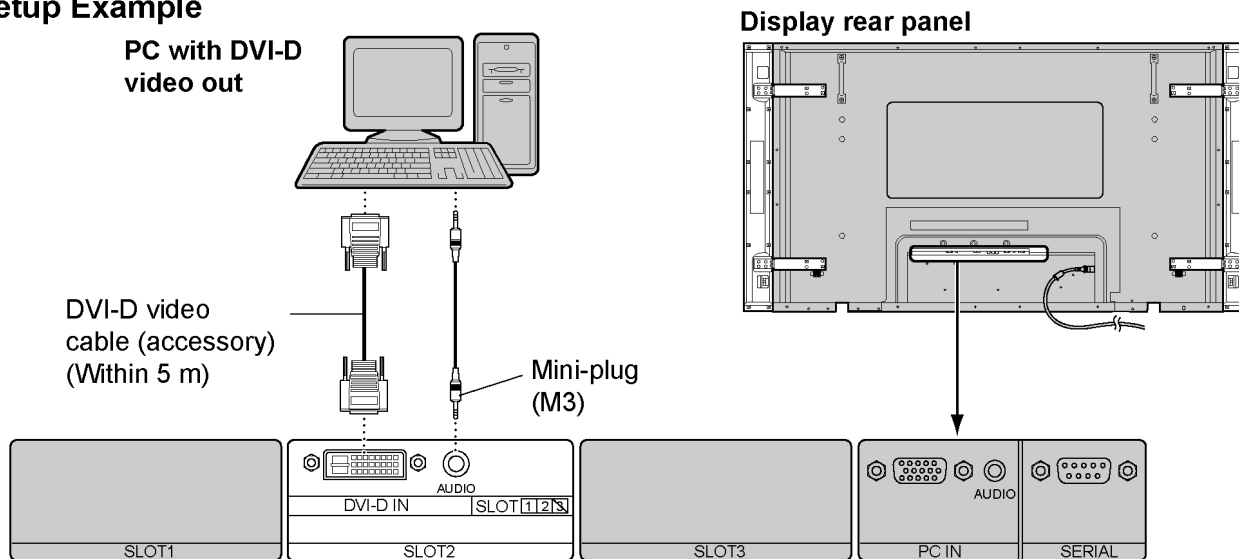
Slot Nos. of the display unit that are compatible with terminal board attachments.

3 slots model

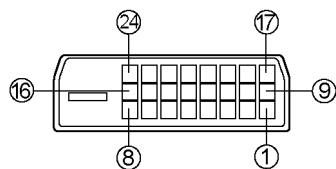
Slot1, Slot2 [Slot3 is not compatible]

Connections

■ Setup Example



DVI-D Input Connector Pin Layouts



Connection port view

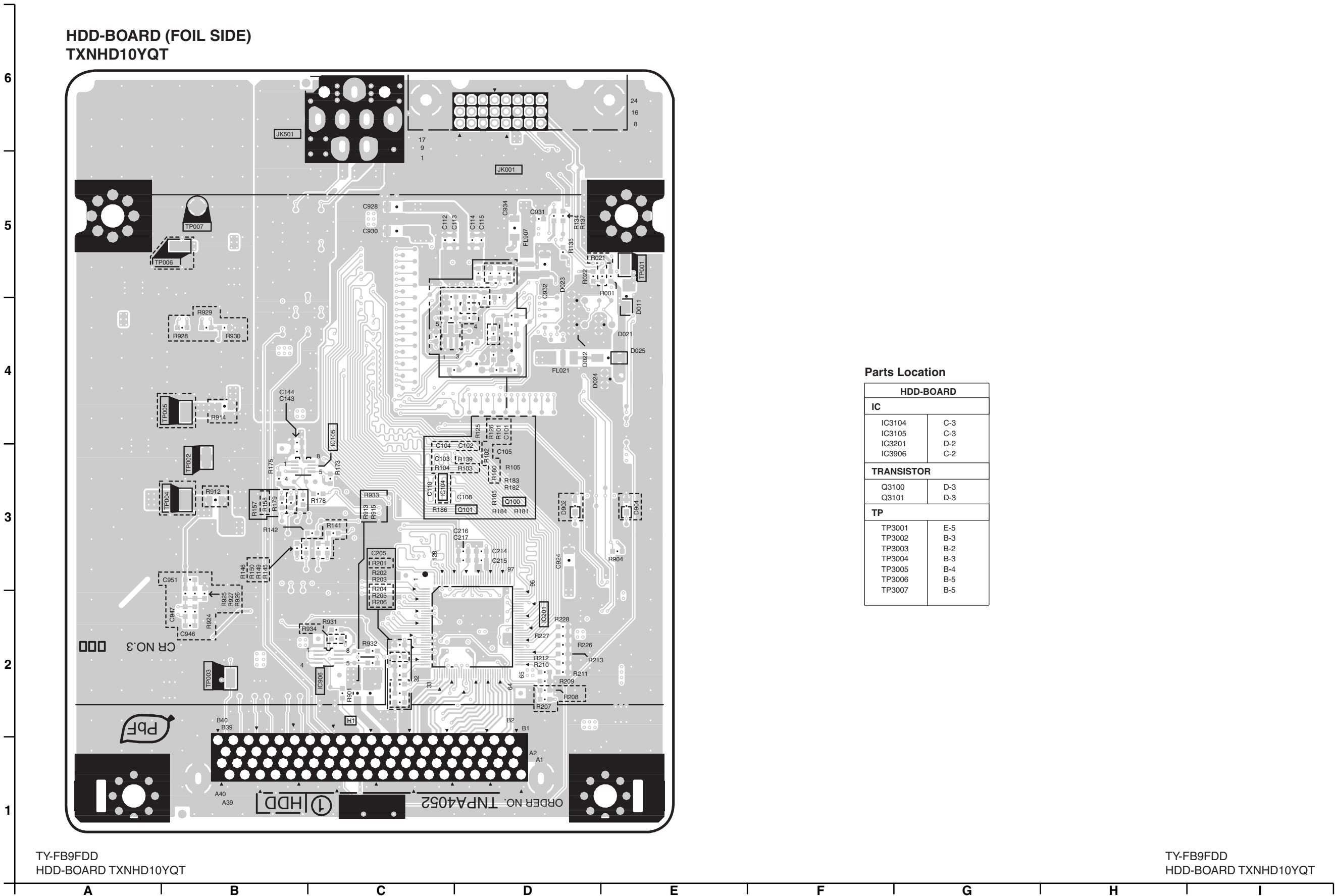
Pin No.	Signal Name	Pin No.	Signal Name
①	T.M.D.S. data 2-	⑬	T.M.D.S. data 3+
②	T.M.D.S. data 2+	⑭	+5 V DC
③	T.M.D.S. data 2/4 shielded	⑮	Ground
④	T.M.D.S. data 4-	⑯	Hot plug sense
⑤	T.M.D.S. data 4+	⑰	T.M.D.S. data 0-
⑥	DDC clock	⑱	T.M.D.S. data 0+
⑦	DDC data	⑲	T.M.D.S. data 0/5 shielded
⑧		⑳	T.M.D.S. data 5-
⑨	T.M.D.S. data 1-	㉑	T.M.D.S. data 5+
⑩	T.M.D.S. data 1+	㉒	T.M.D.S. clock shield
⑪	T.M.D.S. data 1/3 shielded	㉓	T.M.D.S. clock+
⑫	T.M.D.S. data 3-	㉔	T.M.D.S. clock-

Applicable input signals

Signal name	Resolution	Horizontal frequency(kHz)	Vertical frequency(Hz)	Dot clock frequency(MHz)
525 (480) /60p	720 x 480	27.00	31.47	59.94
625 (576) /50p	720 x 576	27.00	31.25	50.00
750 (720) /60p	1,280 x 720	74.25	45.00	60.00
750 (720) /50p	1,280 x 720	74.25	37.50	50.00
1,125 (1,080) /60i	1,920 x 1,080	74.25	33.75	60.00
1,125 (1,080) /60p	1,920 x 1,080	148.50	67.50	60.00
1,125 (1,080) /50i	1,920 x 1,080	74.25	28.13	50.00
1,125 (1,080) /50p	1,920 x 1,080	148.50	56.26	50.00
VGA60	640 x 480	25.18	31.47	59.94
WVGA60	852 x 480	34.24	31.47	59.94
SVGA60	800 x 600	40.00	37.88	60.32
WSVGA60	1,066 x 600	53.94	37.88	60.32
XGA60	1,024 x 768	65.00	48.36	60.00
XGA50	1,024 x 768	51.89	39.55	50.00
WXGA60	1,366 x 768	87.44	48.36	60.00
WXGA50	1,366 x 768	69.92	39.55	50.00
XGA+	1,152 x 864	81.62	53.70	60.00
SXGA60	1,280 x 1,024	108.00	63.98	60.02
SXGA+	1,400 x 1,050	122.61	65.22	60.00
UXGA60	1,600 x 1,200	162.00	75.00	60.00
WUXGA60	1,920 x 1,200	154.00	74.04	59.95

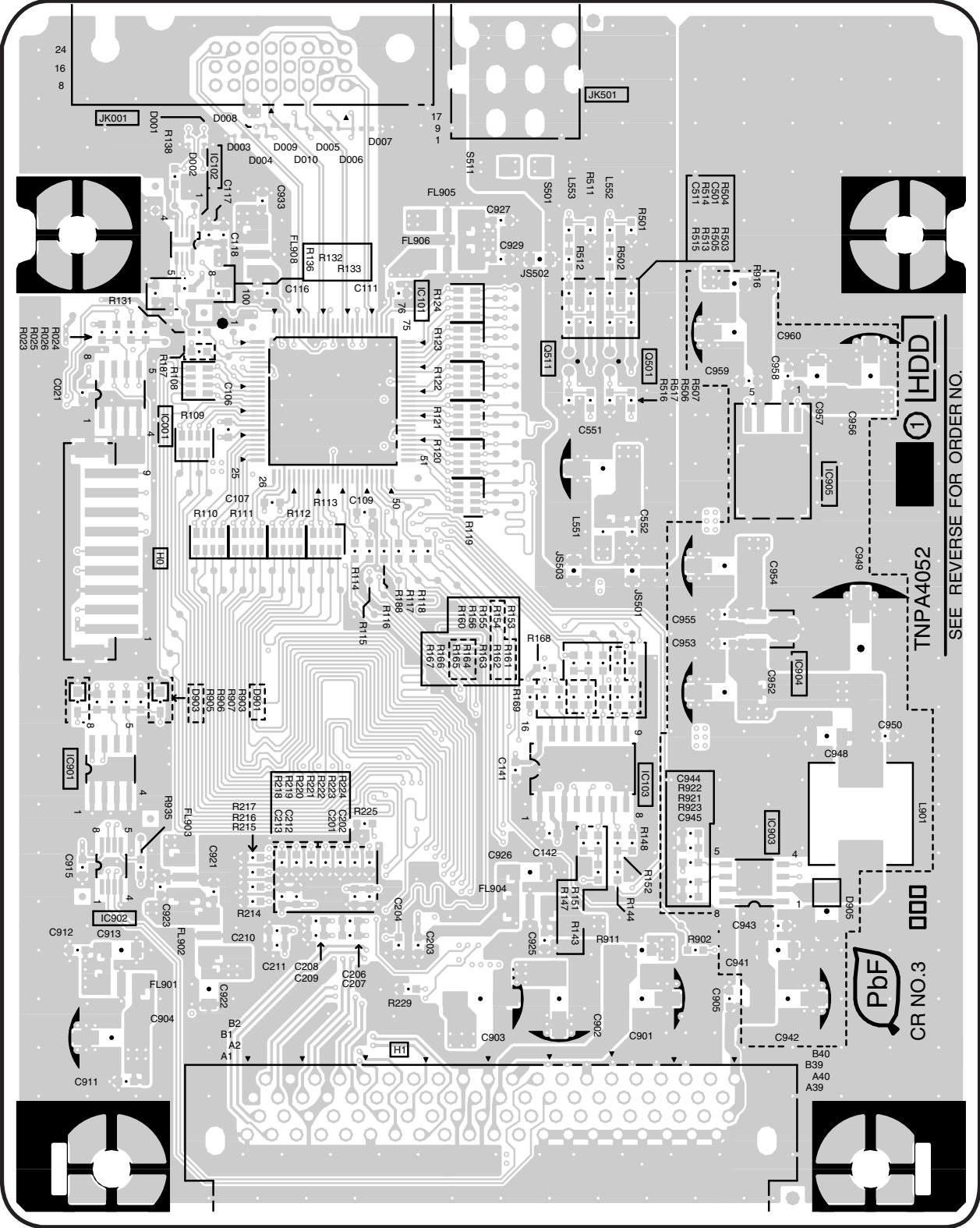
6 Circuit Board Layout

6.1. HDD-Board



HDD-BOARD (COMPONENT SIDE)
TXNHD10YQT

6
5
4
3
2
1



Parts Location

HDD-BOARD	
IC	
IC3001	B-4
IC3101	C-5
IC3102	B-5
IC3103	D-3
IC3901	A-3
IC3902	A-2
IC3903	D-2
IC3904	D-3
IC3905	D-4
TRANSISTOR	
Q3501	C-4
Q3511	D-4

A B C D E F G H I

7 Block and Schematic Diagram

7.1. Schematic Diagram Notes

Important Safety Notice

Components identified by $\triangle$ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

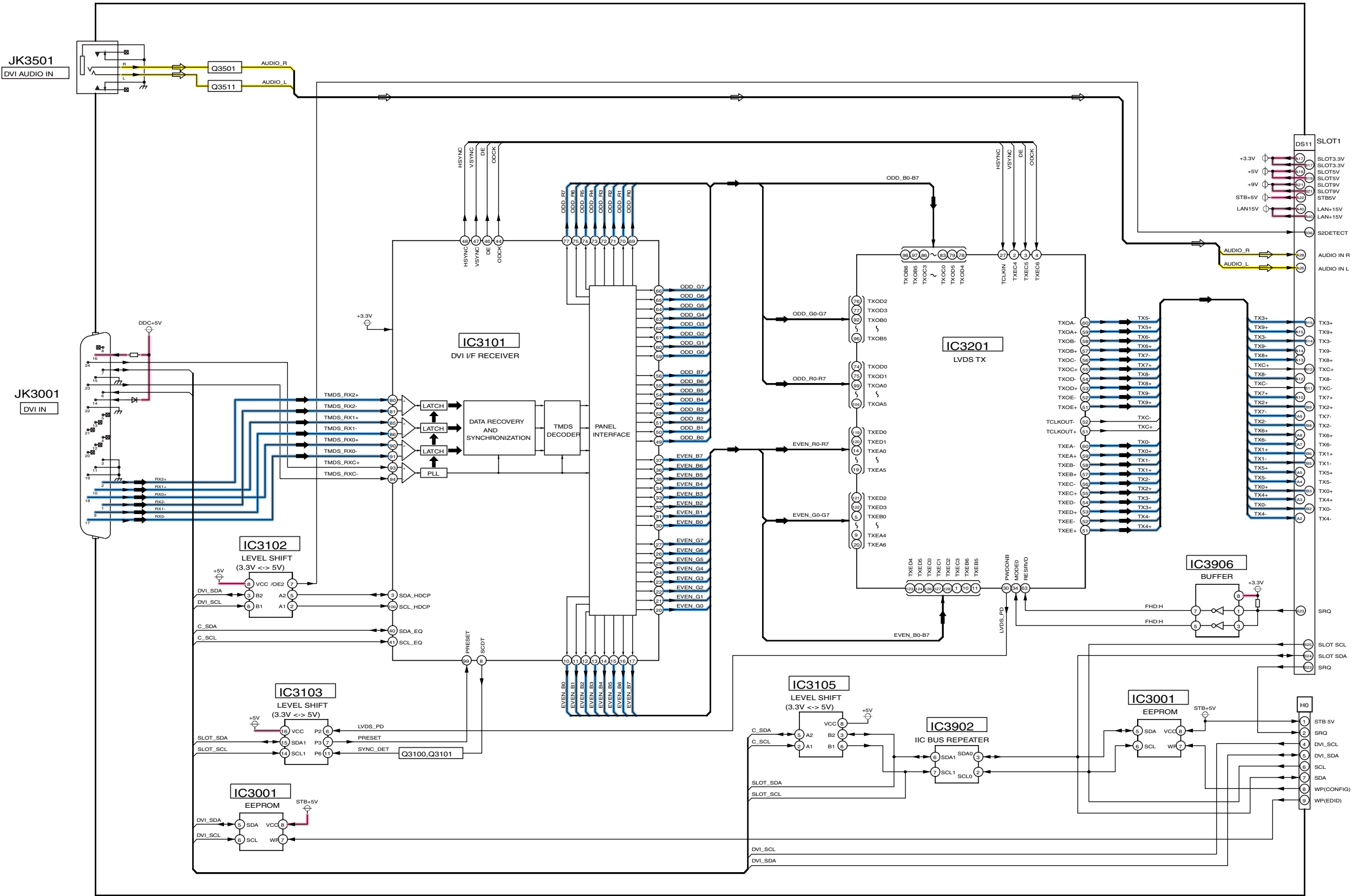
Notes:

- 1. **Resistor**
Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
- 2. **Capacitor**
Unit of capacitance is μ F, unless otherwise noted.
- 3. Coil
Unit of inductance is μ H, unless otherwise noted.
- 4. Test Point
 : Test Point position
- 5. Earth Symbol
 : Chassis Earth (Cold)  : Line Earth (Hot)
- 6. Voltage Measurement
Voltage is measured by a DC voltmeter.
Conditions of the measurement are following:
Receiving Signal Colour Bar signal
All customer's controls Maximum positions
- 7. When arrow mark () is found, connection is easily found from the direction of arrow.
- 8. Indicates the major signal flow. : Video  Audio 
- 9. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

- 1. The Power Circuit contains a circuit area which uses a separate power supplier to isolate the earth connection.
The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.
All circuits, except the Power Circuit, are cold.
Precautions
 - a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
 - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
 - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
Connect the earth of instruments to the earth connection of the circuit being measured.
 - d. Make sure to disconnect the power plug before removing the chassis.

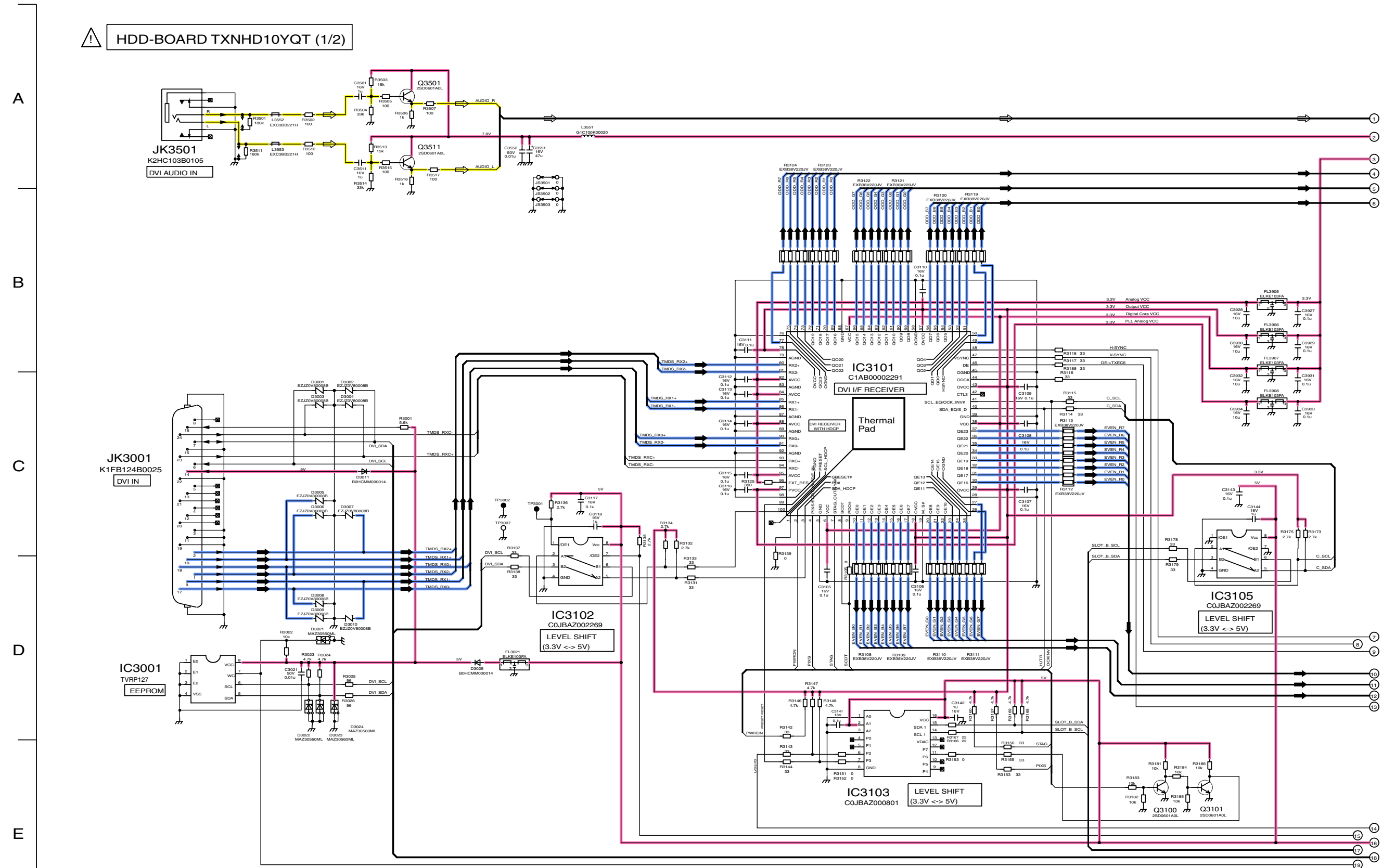
7.2. HDD-Board Block Diagram



TY-FB9FDD
HDD-Board Block Diagram

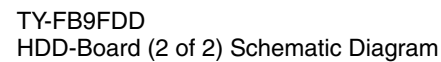
TY-FB9FDD
HDD-Board Block Diagram

7.3. HDD-Board (1 of 2) Schematic Diagram



TY-FB9FDD
HDD-Board (1 of 2) Schematic Diagram

TY-FB9FDD
HDD-Board (1 of 2) Schematic Diagram



8 Replacement Parts List

8.1. Replacement Parts List Notes

Important Safety Notice

*Components identified by $\triangle$ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.*

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W
 Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V
 Type Allowance

Type	Allowance
C : Carbon	F : $\pm 1\%$
F : Fuse	G : $\pm 2\%$
M : Metal Oxide Metal Film	J : $\pm 5\%$
S : Solid	K : $\pm 10\%$
W : Wire Wound	M : $\pm 20\%$

Type	Allowance
C : Ceramic	C : $\pm 0.25\text{pF}$
E : Electrolytic	D : $\pm 0.5\text{pF}$
P : Polyester	F : $\pm 1\text{pF}$
Polypropylene	G : $\pm 3\text{pF}$
J : $\pm 5\text{pF}$	
T : Tantalum	K : $\pm 10\text{pF}$
	L : $\pm 15\text{pF}$
	M : $\pm 20\text{pF}$
	P : +100%, -0%
	Z : +80%, -20%

8.2. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3021	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	
C3105-17	ECJ1XF1C104Z	C 0.1UF, Z, 16V	13	
C3118	ECJ1VF1C105Z	C 1UF, Z, 16V	1	
C3141	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3142	ECJ1VF1C105Z	C 1UF, Z, 16V	1	
C3143	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3144	ECJ1VF1C105Z	C 1UF, Z, 16V	1	
C3201	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3202	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C3203	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3204	ECJ1VC1H100C	C 10PF, C, 50V	1	
C3205	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C3206	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3207	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C3208	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3209	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C3210	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3211	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C3212	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3213	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C3214	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3215	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C3216	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3217	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C3501	ECJ1VF1C105Z	C 1UF, Z, 16V	1	
C3511	ECJ1VF1C105Z	C 1UF, Z, 16V	1	
C3551	EEH1C470P	C 47PF, J, 16V	1	
C3552	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	
C3901-04	EEH1C470P	C 47PF, J, 16V	4	
C3905	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3911,12	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C3913	ECJ3XB1C106M	C 1.0UF, K, 16V	1	
C3915	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3921	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3922	ECJ3XB1C106M	C 1.0UF, K, 16V	1	
C3923	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3924	ECJ3XB1C106M	C 1.0UF, K, 16V	1	
C3925	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3926	ECJ3XB1C106M	C 1.0UF, K, 16V	1	
C3927	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3928	ECJ3XB1C106M	C 1.0UF, K, 16V	1	
C3929	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3930	ECJ3XB1C106M	C 1.0UF, K, 16V	1	
C3931	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3932	ECJ3XB1C106M	C 1.0UF, K, 16V	1	
C3933	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3934	ECJ3XB1C106M	C 1.0UF, K, 16V	1	
D3001-10	EZJZ0V80008B	VARISTOR	10	
D3011	B0HCMM000014	DIODE	1	
D3021-24	MA3056M	ZENER DIODE	4	
D3025	B0HCMM000014	DIODE	1	
FL3021	ELKE103FA	NOISE FILTER	1	
FL3901-08	ELKE103FA	NOISE FILTER	8	
H0	K1KA09AA0150	9P CONNECTOR	1	
H1	K1KA80B00037	80P CONNECTOR	1	
IC3001	TVRP127	IC	1	
IC3101	C1AB00002291	IC	1	
IC3102	C0JBAZ002269	IC	1	
IC3103	JLC1562BF	MOS IC (MICON LSI)	1	
IC3105	C0JBAZ002269	IC	1	
IC3201	C0ZBZ0001411	IC	1	
IC3901	TVRP125	IC	1	
IC3902	C0JBAZ002344	IC	1	

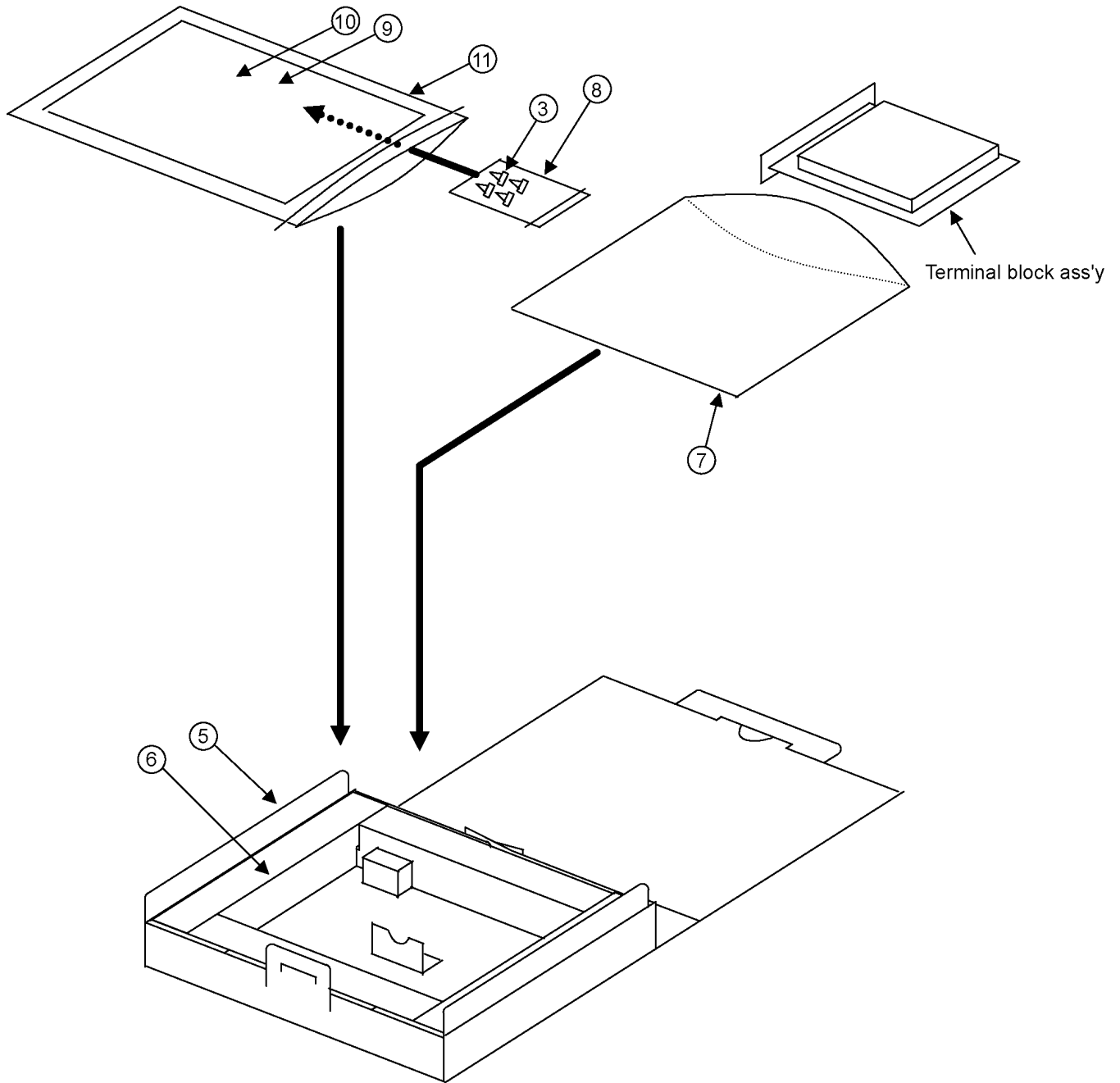
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC3906	C0JBAB000671	IC	1	
JK3001	K1FB124B0025	CONNECTOR	1	
JK3501	K2HC103B0105	JACK	1	
JS3501-03	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
L3551	GLC100K00020	INDUCTION COIL	1	
L3552,53	EXC3BB221H	BEAD CHOKE	2	
Q3100,01	2SD601A	TRANSISTOR	2	
Q3501	2SD601A	TRANSISTOR	1	
Q3511	2SD601A	TRANSISTOR	1	
R3001	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R3022	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3023,24	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R3025,26	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R3105	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3108-13	EXB38V220J	RESISTOR ARRAY	6	
R3114-18	ERJ3GEYJ330	M 33 OHM,J,1/16W	5	
R3119-24	EXB38V220J	RESISTOR ARRAY	6	
R3125	ERJ3EKF3900	M 390 OHM, 1/16W	1	
R3131	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R3132	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R3133	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R3134-36	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	3	
R3137,38	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R3139	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3142-44	ERJ3GEYJ330	M 33 OHM,J,1/16W	3	
R3146-48	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	3	
R3151,52	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3153	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R3155,56	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R3157	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R3160	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R3163	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3166,67	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3168,69	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R3173	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R3175	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R3178,79	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R3181-86	ERJ3GEYJ103	M 10KOHM,J,1/16W	6	
R3188	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R3202,03	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3209	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3210-28	ERJ3GEY0R00	M 0 OHM, 1/16W	19	
R3229	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3501	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	
R3502	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3503	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R3504	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R3505	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3506	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3507	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3511	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	
R3512	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3513	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3514	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R3515	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3516	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3517	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3901	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3902	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3903-05	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R3906,07	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3911	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3913	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3915	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3931	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3932,33	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R3935	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
RTL	TXNHD10YQT	RGB (DVI-D) TERMINAL BOARD	1	△

8.3. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TBMU700	TERMINAL SHEET	1	
2	THEA068N	SCREW	2	
3	THEL0239	SCREW FOR INSTALLATION	4	
4	THEL027N	SCREW FOR SHIELD PLATE	4	
5	TPCB13146	CARTON BOX	1	△
6	TPDF1103	CUSHION	1	
7	TPEH135	PROTECT COVER	1	
8	TQE6691	POLY BAG (SCREW)	1	
9	TQZH461-1	INSTRUCTION SHEET	1	
10	TQZH764	INSTRUCTION BOOK	1	△
11	XZBT6506	POLY BAG (INSTRUCTION BOOK)	1	

8.4. Parts Location (1)



8.5. Parts Location (2)

